37 KEYBOARD UNIT

LUBRICATION

CONTENTS

1. GENERAL

1.01 This section provides lubrication procedures for the late design, 11-contact 37 keyboard unit (Figure 1). It is reissued to incorporate engineering changes and comments which were received on Issue 1. Since only a limited distribution was made on Issue 1, marginal arrows have been omitted. Refer to Section 574-321-701TC for lubrication procedures for early design, 28-contact units.

1.02 Lubrication of the keyboard unit is presented by mechanisms with the procedures arranged counterclockwise around the mechanism. Following the procedures in this manner minimizes shifting and handling of the mechanisms.

1.03 Figures of each mechanism are used to show the lubrication area. The paragraph numbers on the figure refer to the specific lubrication points. References made to the front, top, rear, left, or right, apply to the keyboard unit in the position normally viewed by the operator.

1.04 Lubricate the keyboard unit before placing it in service and just prior to putting it in storage.

1.05 After approximately 200 hours or four weeks of operation (whichever comes first) relubricate the keyboard unit to make certain that no mechanisms have been missed. Thereafter, lubricate the mechanisms according to the following schedule:

100 wpm	2,000 hr or 9 mo*
150 wpm	1,500 hr or 6 mo*

*Whichever occurs first.

CAUTION: WHEN THE KEYBOARD UNIT IS FUNCTIONALLY UTILIZED, REMOVE POWER FROM EQUIPMENT BEFORE ANY LUBRICATION IS PERFORMED.

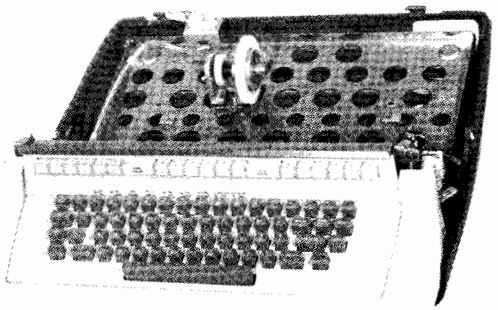


Figure 1 - 37 Keyboard Unit

1.06 The following list of symbols applies to the specific lubrication instructions given in each paragraph:

SYMBOL

D Keep dry, no lubricant permitted.

O Oil with KS7470 oil as instructed.

G Apply KS7471 grease.

L Apply Lubriplate (TP108805).

Note: In general, the symbols indicate the type of lubricant. Quantity of lubricant is normally given with the text associated with specific lubrication instructions. An exception to this method is where the exact number of drops of oil is specified. For example, O1, O2, O3, etc refer to 1, 2, 3 etc drops of oil.

1.07 Oil should be applied by means of an oiler to points where it will adhere or where pressure is nominal. In lubricating small parts, only a single drop of oil should be applied so that the oil remains on the part and does not run off.

Note: Excessive oil tends to creep onto contacts and wiring insulation where it has a harmful effect.

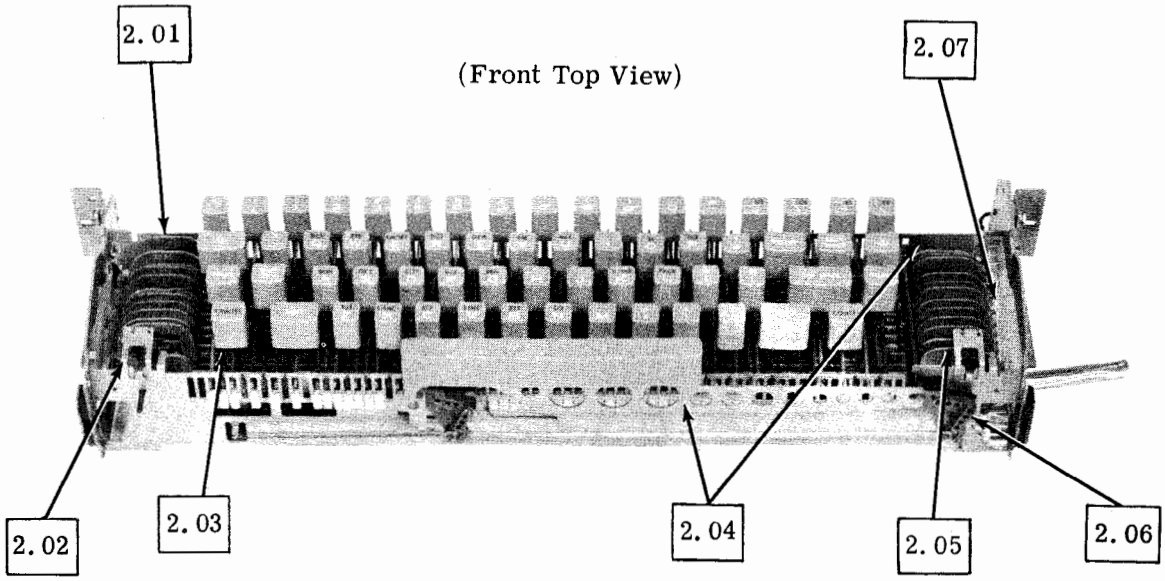
1.08 In general, oil should be used in such locations as hollow shafts, wicks, and in most locations where parts rub, slide, or move with respect to each other. Grease should be used on gear teeth and points of heavy pressure. Overlubrication which would allow oil to drip or grease to be thrown on other parts should be avoided. Capillary action and vaporization tend to keep a film of oil on the mechanisms. This prevents rust and provides sufficient lubrication to many points.

Note: Protective pad TP124828 is available to protect furniture and floor coverings from oil, grease, and dirt while lubricating the unit.

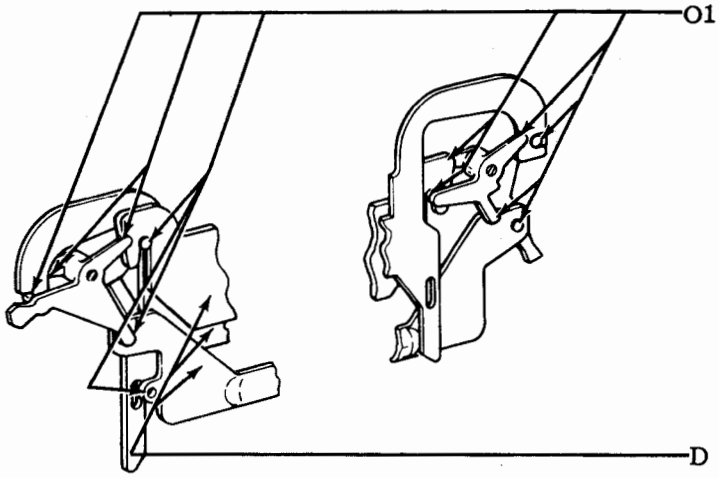
1.09 To remove the keyboard unit for lubrication, refer to Section 591-801-702TC.

2. BASIC UNIT

KEYBOARD MECHANISM



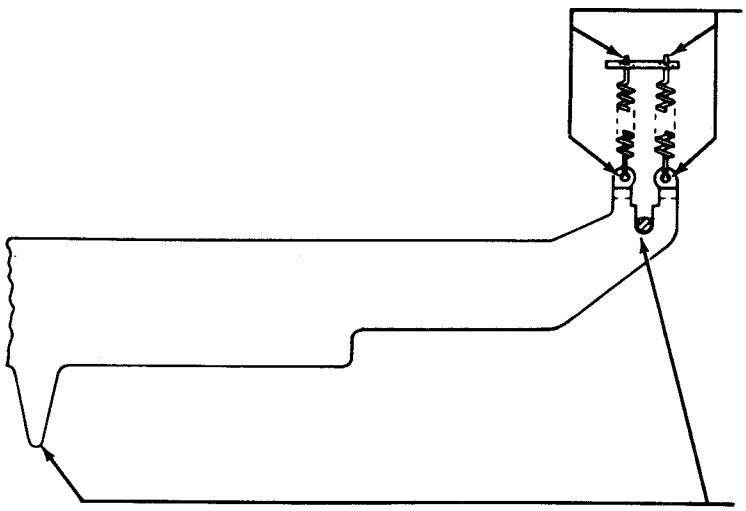
2.01 Codebar Sets



O1	Pivots and Guide Surfaces	T-Levers
D	Engaging Surfaces	Codebars and T-Levers

(Left Front View)

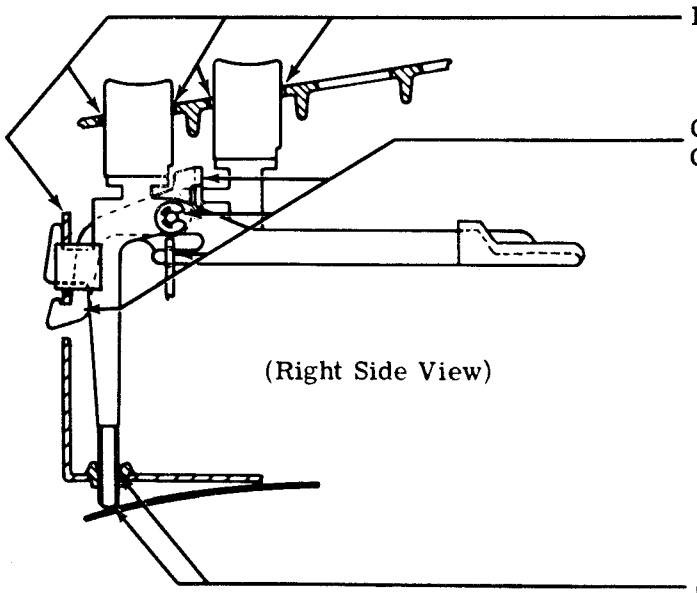
2.02 Downstop Bar



(Front View)

O1	Hooks, (Left and Right Side)	Springs (4)
O1	Contact Surfaces (Left and Right Side)	Downstop Bar

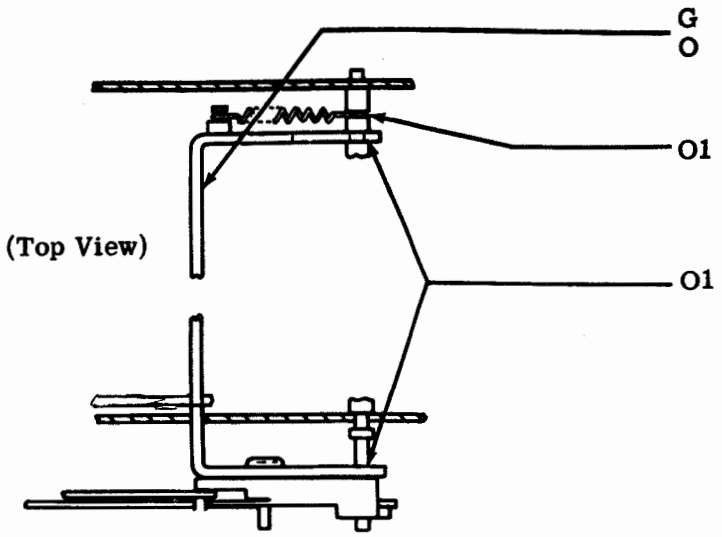
2.03 Keylevers



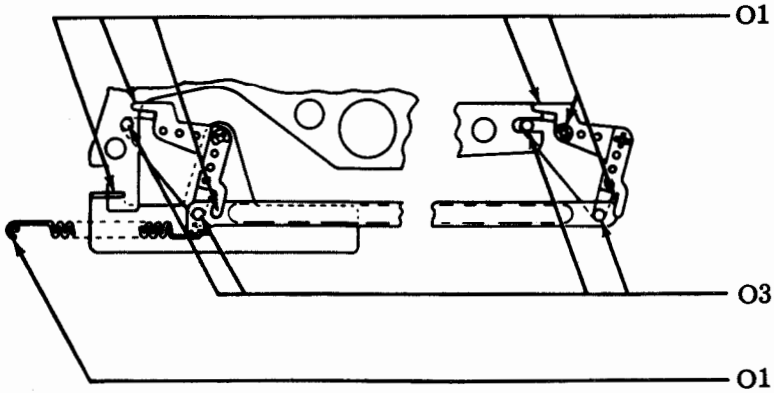
(Right Side View)

D	Sliding Surfaces	Keytops
G O	Brush Pivots, Engaging Surfaces with 50% G and 50% O	Keylevers (All)
O3	Contact Surfaces	Keylever Springs (All)

2.04 Spacebar and Space Bail



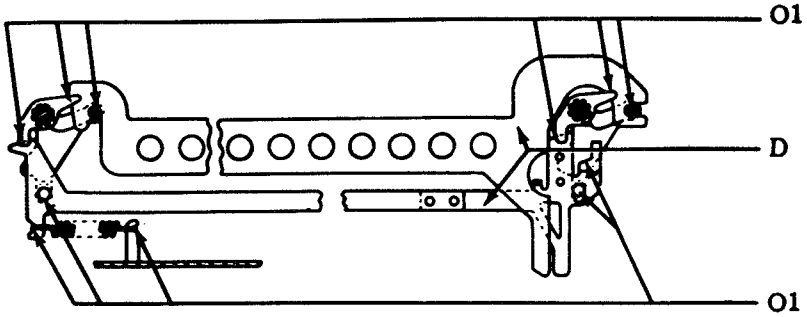
Brush Contact Surface with thin coat 50% G and 50% O		Space Bail
O1	Hooks (Each End)	Spring
O1	Pivots	Space Bail



O1	Pivots and Guide Surfaces	L-Levers
O3	Pivots	L-Levers
O1	Hooks (Each End)	Spring

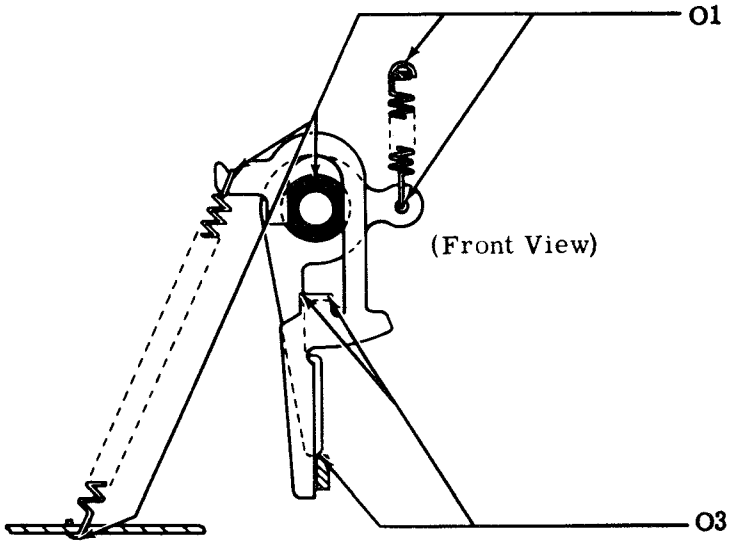
(Front View)

2.05 Universal Codebar



(Front View)

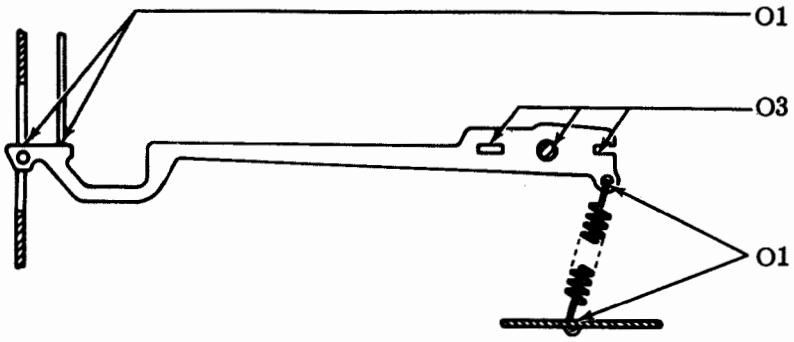
O1	Pivots and Guide Surfaces	T-Levers
D	Surfaces (Both Sides)	Codebar, Tie Link
O1	Engaging Surface, Pivots, Hooks	Tie Link, T-Levers, Spring



(Front View)

O1	Hooks, Pivots	Springs, Latchlever, Nonrepeat Lever
O3	Engaging Surfaces	Latchlever, Nonrepeat Lever

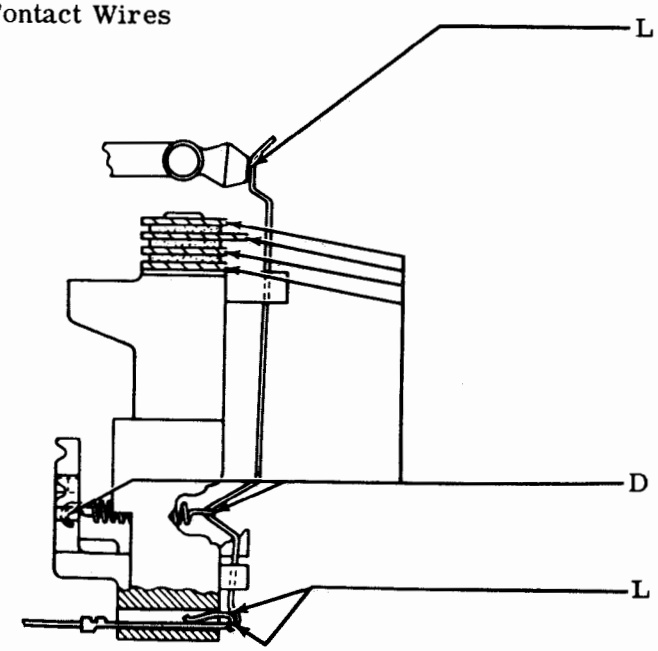
2.06 Trip Arm Lever



Engaging Surface	Trip Arm
Pivot, Engaging Surfaces	Trip Arm Post, H-Plate (Right Side Only)
Hooks	Spring

(Right Side View)

2.07 Contact Wires



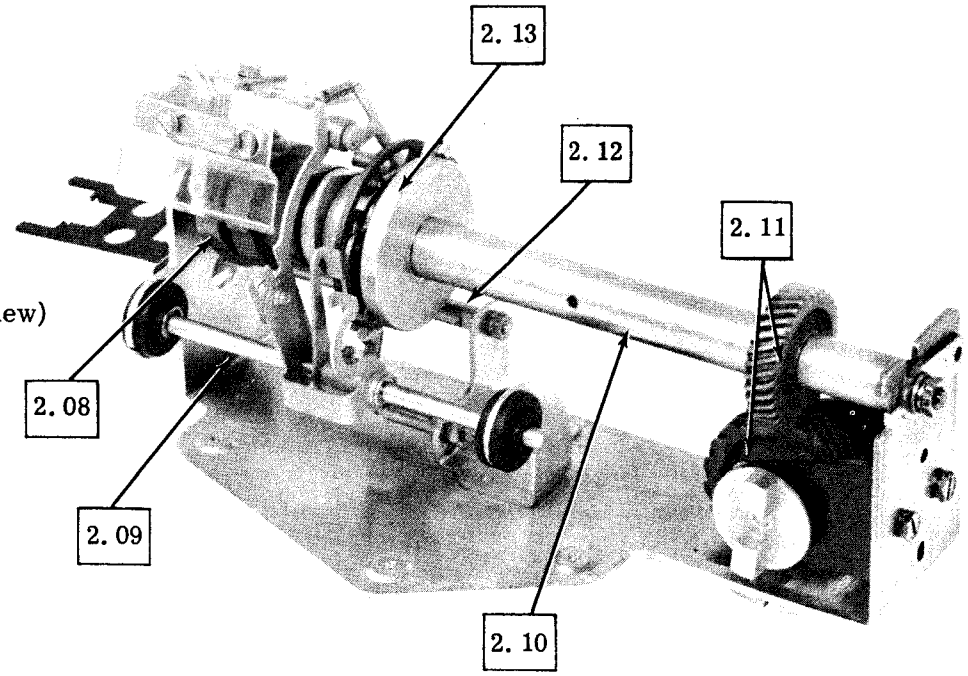
Thin Coat on engaging surface on disassembly and reassembly of Contact Mechanism	T-Levers

CAUTION: DO NOT CLEAN CONTACT BLOCK WITH ALCOHOL, MINERAL SPIRITS, OR OTHER SOLVENTS. DO NOT USE A BURNISHING TOOL TO CLEAN CONTACTS; ALWAYS CLEAN GOLD PLATED CONTACTS USING TWILL CLOTH.

Contact Surfaces	Contact Wires, Springs
Pivot Terminal	Contact Wires

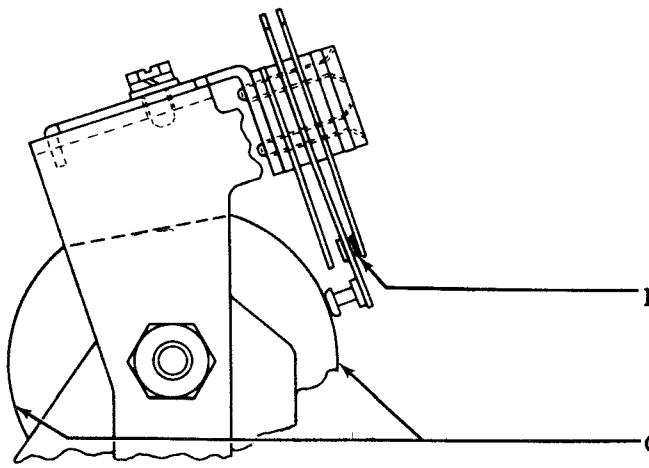
(Right Front View)

RESET MECHANISM



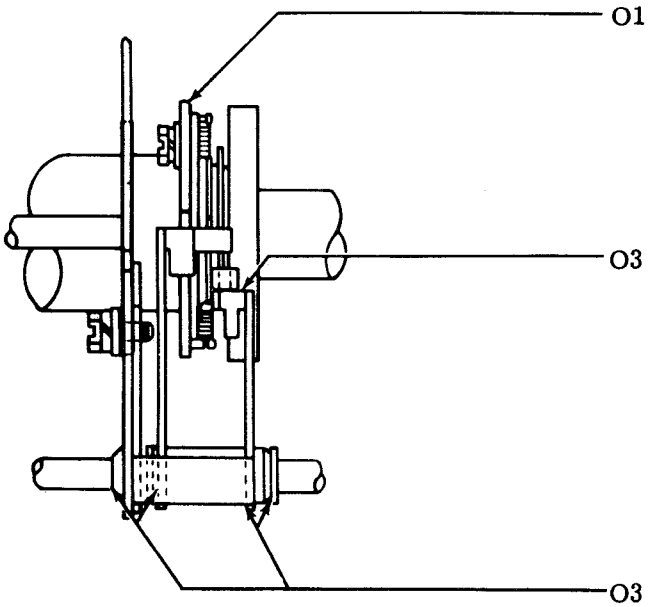
(Rear View)

2.08 Auxiliary Contact Cam



(Right Side View)

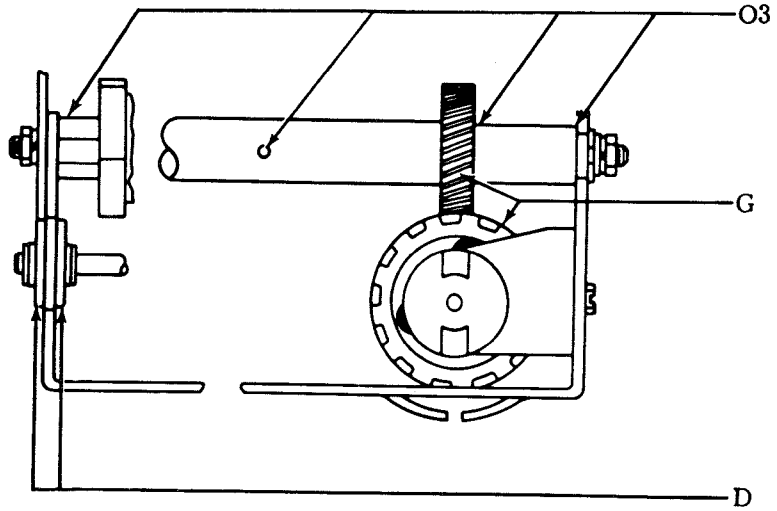
2.09 Clutch and Stop Arm Shaft



(Rear View)

O1	Camming Surface	Clutch Disc
O3	Engaging Surfaces	Clutch Shoe and Stop Arm
O3	Bearing Surfaces	Stop Arm Shaft

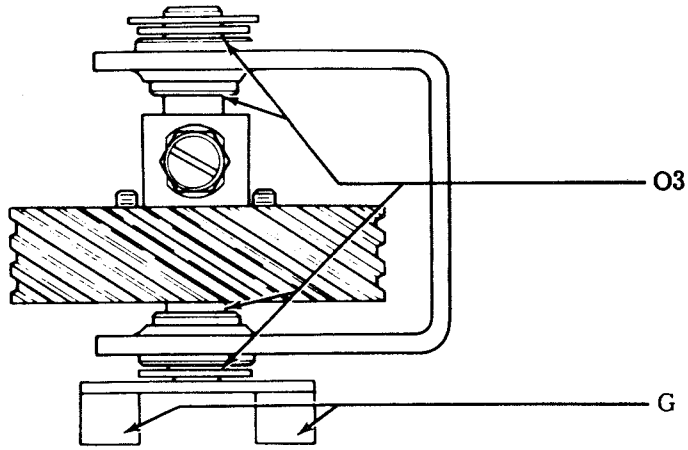
2.10 Main Shaft and Gears



(Rear View)

O3	Bearing Surfaces, Oil Hole	Main Shaft
G	Teeth, Thin Coat	Driving and Driven Gears
D	Grommets (4)	Stop Arm Shaft

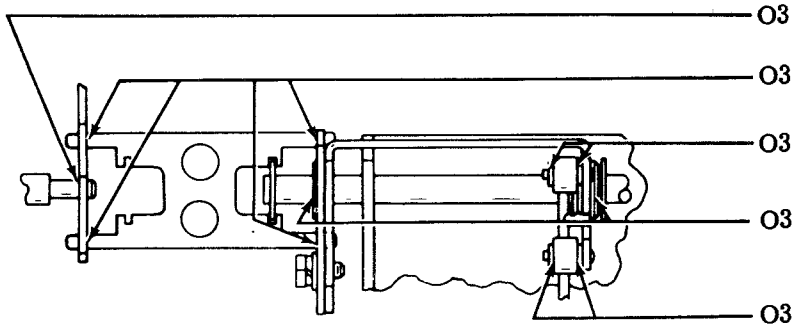
2.11 Driven Coupler and Driving Gear Shaft



O3	Bearing Surfaces	Driving Gear Shaft
G	Thin Coat on Engaging Surfaces	Driven Coupler

(Top View, Left End)

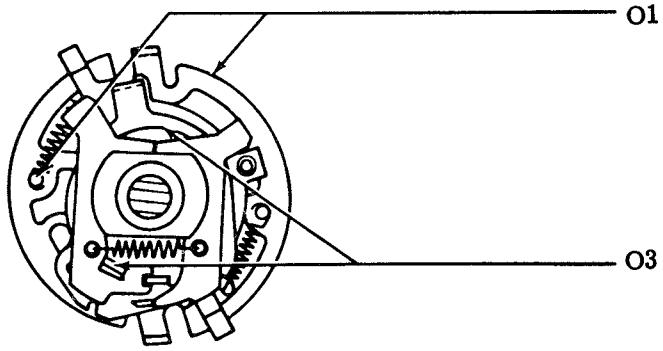
2.12 Reset Bail



O3	Bearing Surface	Trip Arm Post
O3	Engaging Surfaces	H-Plate
O3	Bearing Surfaces	Reset Bail Roller
O3	Bearing Surfaces	Reset Bail Bearing Shaft
O3	Bearing Surfaces	Trip Roller

(Top View, Right End)

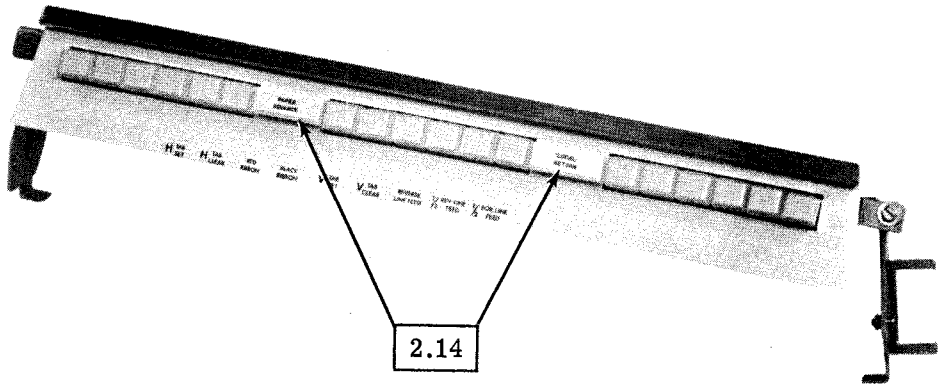
2.13 Clutch



O1	Camming Surface, Hooks	Clutch Disc, Spring
O3	Surface, Wick	Internal Mechanism

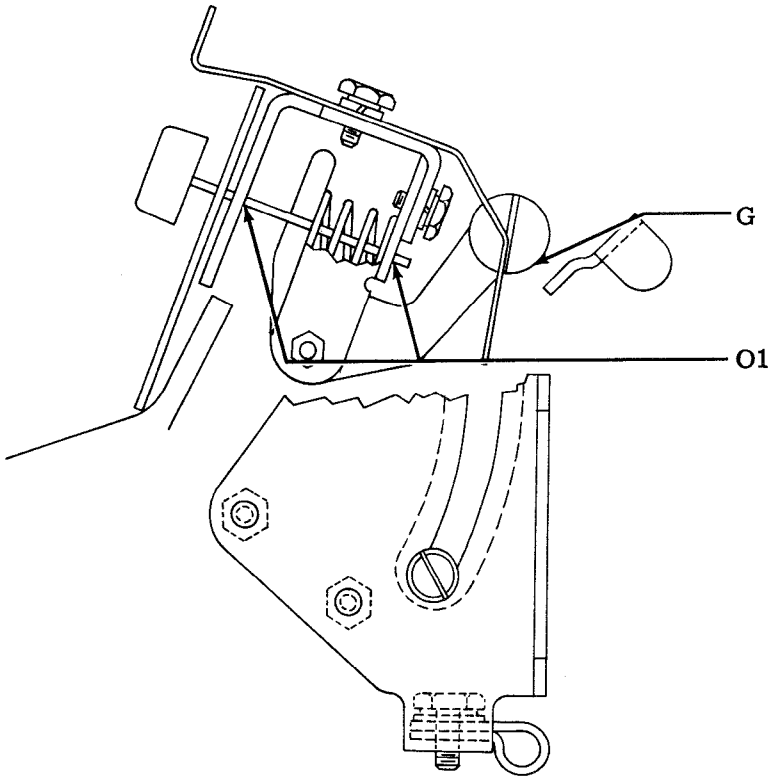
(Internal View)

CONTROL PANEL MECHANISM



(Left Front View)

2.14 Control Panel



Engaging Surface

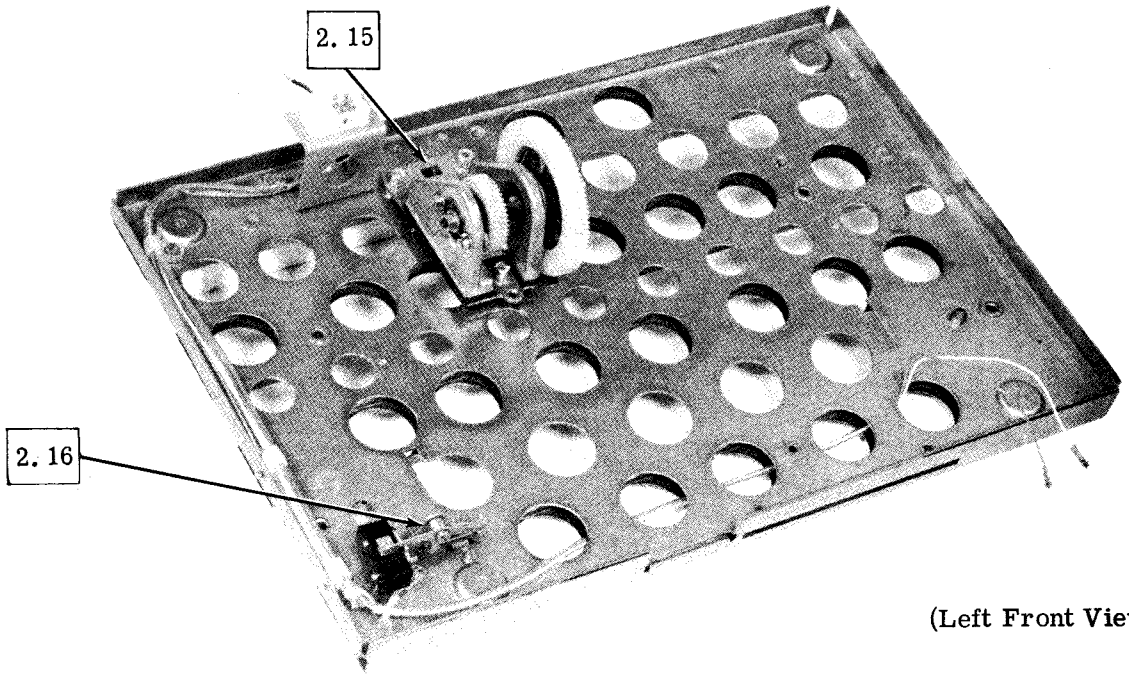
Eccentric Screw

Engaging Surface

Actuating Levers

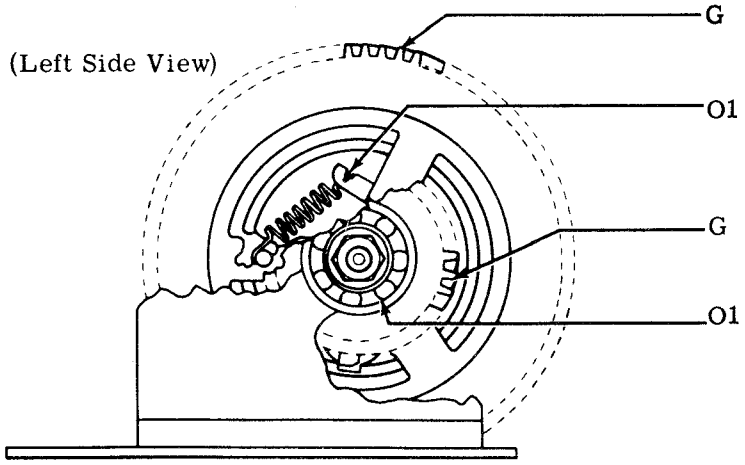
(Right Side View)

BASE MECHANISMS



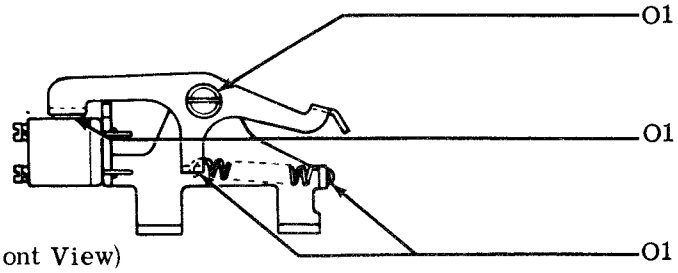
(Left Front View)

2. 15 Intermediate Gear Assembly



G	Teeth, Thick Coat	**Driven Gear**
O1	Hooks (Each End)	**Spring**
G	Teeth, Thick Coat	**Driving Gear**
O1	Ball Bearings (2 Bearings)	**Shaft**

2. 16 Margin Indicator Switch



O1	Bearing Surface	**Lever Pivot**
O1	Engaging Surface	**Switch**
O1	Hooks	**Spring**